

Amendments to the Claims:

This listing of claims will replace all prior listings of the claims in the application:

Listing of Claims:

1. (currently amended) A printhead for correcting systematic printing errors comprising:
 - an ink ejection driver head having a distributive processor integrated within the ink ejection driver head; and
 - a correction scheme programmed into the distributive processor, wherein the correction scheme includes intentionally misaligning the ejected ink drops to compensate for ~~known systematic ink drop printing errors~~ defective drops of ink that are ejected when the driver head fires above a threshold frequency.
2. (currently amended) The printhead of claim 1, wherein the correction scheme corrects systematic ink drop placement errors of the printhead, wherein the defective drops are comprised of spatter drops with tail artifacts and wherein the threshold frequency is approximately 36 kilohertz.
3. (original) The printhead of claim 1, further comprising a general correction scheme generated during manufacturing of a class of Inkjet printheads.
4. (original) The printhead of claim 3, wherein the general correction scheme includes corrections that cover additional errors that exist.
5. (original) The printhead of claim 1, further comprising individual correction schemes generated during manufacturing of individual inkjet printheads.
6. (original) The printhead of claim 5, wherein the individual correction schemes include corrections that cover additional errors that exist.
7. (original) The printhead of claim 1, wherein the correction scheme is controlled by a printer driver as software operating on a computer system that is connected to the printhead.

8. (original) The printhead of claim 1, wherein the correction scheme is preprogrammed as firmware and incorporated into a controller connected to the printhead.

9. (original) The printhead of claim 1, wherein the correction scheme is encoded on a memory device incorporated into printhead.

10. (original) The printhead of claim 1, wherein the correction scheme is generated at the time of at least one of printhead manufacturing or printhead operation.

11. (currently amended) A method for correcting systematic printing errors of an inkjet printhead, comprising:

determining systematic errors that are associated with the printhead with an ink ejection driver head having a distributive processor integrated within the ink ejection driver head;

recording and storing the systematic errors;

generating a correction scheme to correct the systematic errors; and

applying the correction scheme to the printhead during printing operations, wherein the correction scheme includes intentionally misaligning the ejected ink drops to compensate for ~~known systematic ink drop printing errors~~ defective drops of ink that are ejected when the driver head fires at a frequency at above approximately 36 kilohertz.

12. (original) The method of claim 11, wherein the correction scheme is generated as a compensation operation that corrects alignment ink drop errors by instructing the printhead to strategically misalign the ink drops during normal operation of the printer.

13. (original) The method of claim 11, wherein determining systematic errors that are associated with the printhead includes determining odd/even alignment offsets for the printhead.

14. (original) The method of claim 11, wherein generating a correction scheme includes printing an alignment plot, examining the alignment plot to determine the correct alignment for main ink drops and storing the correct alignment in a memory device, wherein examining the alignment plot includes at least one of automatically examining the plot with an alignment sensor or manually examining the plot by a user.

15. (original) The method of claim 14, further comprising, before a printing operation, reading the systematic errors and using the correct alignment data to eject ink drops during a printing operation that are intentionally misaligned to compensate for the systematic errors.

16. (original) The method of claim 11, wherein generating a correction scheme includes firing droplets and examining the droplets during flight to determine the correct alignment for main ink drops and storing the correct alignment in a memory device.

17. (original) The method of claim 16, further comprising, before a printing operation, reading the systematic errors and using the correct alignment data to eject ink drops during a printing operation that are intentionally misaligned to compensate for the systematic errors.

18. (currently amended) An inkjet printing system comprising:
a controller;
a printhead assembly in bi-directional communication with the controller
and having a distributive processor integrated with an ink ejection driver head; and
wherein the distributive processor is preprogrammed with a correction scheme that selectively prints ink drops as intentionally misaligned ink drops to compensate for ~~known systematic ink drop errors~~ defective drops of ink that are ejected when the driver head fires above a threshold frequency as instructed by the controller for correcting printed artifacts.

19. (original) The inkjet printing system of claim 18, further comprising an ink supply for providing ink to the printhead assembly.

20. (original) The inkjet printing system of claim 19, further comprising :
a media moving mechanism;
a printhead support mechanism that supports the printhead assembly in relation to the media moving mechanism; and
a removable ink supply container fluidically coupled to the printhead assembly for providing ink to the ink ejection driver head.